THE WHITAKER MANUFACTURING CO.
CHICAGO.

DOUBLETREE CLEVISES, SCREW PIN

MALLEABLE SCREW PIN CLEVIS

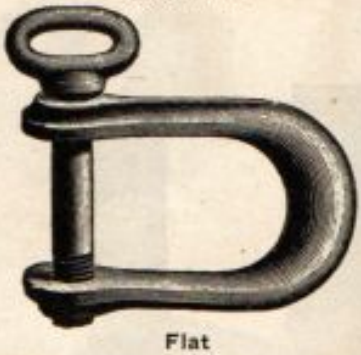
No. 395—Band Pattern

	Inside Width	Entire Lg'th
No. 395	2 inches	4½ inches
No. 410	2½ inches	4½ inches
No. 420	2 inches	6 inches
No. 427	2¼ inches	6 inches
No. 430	2½ inches	6 inches
No. 432	2½ inches	8 inches
No. 434	3 inches	8 inches

Per lb. ..... 13 ..... $0.18

HEAVY PATTERN CLEVIS

Screw Pin



Flat

Certain sections of the country demand a heavier clevis than the regular pattern. Being much heavier and stronger, this heavy pattern is intended for hardest service.

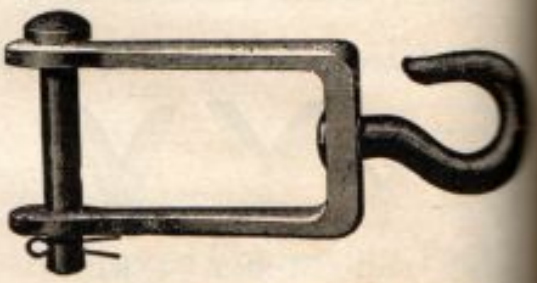
	Inside Width inches	Entire Length inches
No. 444—Heavy Pattern	2	6½
No. 555—Heavy Pattern	2¼	7
No. 666—Heavy Pattern	2½	8

Per lb. ..... 18 ..... $0.18

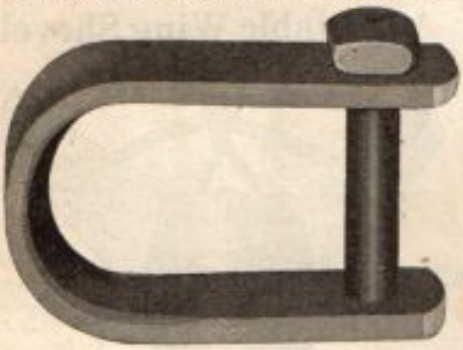
MALLEABLE EVENER CLEVIS AND HOOK

2½ in. Beam, 4 in. clear, 9¼ in. entire length, weight 364 lbs. to 100 pieces.

No. 28—Per doz. ..... 15 lb $5.00



WESTERN STEEL SCREW PIN CLEVISES



No. 41—Opening 2½ in., depth 4 in.
No. 51—Opening 2½ in., depth 5 in.
No. 61—Opening 2½ in., depth 6 in.
No. 71—Opening 2¾ in., depth 7 in.

Per lb. ..... 12 ..... $0.18

STEEL THUMB SCREW PIN CLEVISES

No. 1470

No.	Opening	Entire Length
1470	2 in.	4¾ in.
1480	2 in.	5¼ in.
1490	2¼ in.	6 in.
1500	2½ in.	6 in.

Per lb. ..... 12 ..... $0.18

HARROW CLEVISES AND HOOKS

No. 2858A
For Wood Beam Harrow, Top Hook.
2⅝-inch Beam; 2⅝ in. center of Pin to end of Beam; 5 in. over all. Weight, 82 lbs. per 100 pieces.
No. 2858A, per doz.....$2.40 16 lb

Harrow Hook
To fit ⅝-inch Beam.
Length of Hook 4 in.
No. 2858C, doz.....$2.40 16 lb

No. 2858B
For Wood Beam Harrow Bottom Hook.
2⅝ inch Beam.
2⅝ inches center of Pin to end of Beam; 7 inches over all.
Weight, 102 lbs. to 100 pieces.
No. 2858B, per doz.....$2.40 16 lb

END CLEVISES

No. 2808

No. 2808—Straight .....1x3½ inches
Per lb. ..... 18 .....$0.18
No. 2821—Twisted .....⅝x4 inches
Per lb. ..... 13 .....$0.18

No. 2821

IDEAL SWIVEL HOOK

Per doz. ..... 18 lb $6.00

IDEAL SWIVEL CLEVIS

Per doz. 15 lb $7.00

THE KRUSE KROSS KLEVIS

This any plow from an eight to an inch.
Per doz. 8.25 .....$5.00

STOWELL CROSS CLEVIS

Can be adjusted to fit any size of wood or steel beam. Saves carrying a large stock of various sizes of Cross Clevises.
Weight, 2 lbs.
Per doz. ..... 2.75 .....$6.00

PLOW CLEVISES

Steel and Iron Beam

No. 2990—⅝-inch iron beam, center to center of holes, 3⅝ inches.

No. 2960—⅝-inch steel beam, center to center of holes, 3⅝ inches.

Wood Beam

No. 2956—3-inch beam, center to center of holes, 4¾ inches.

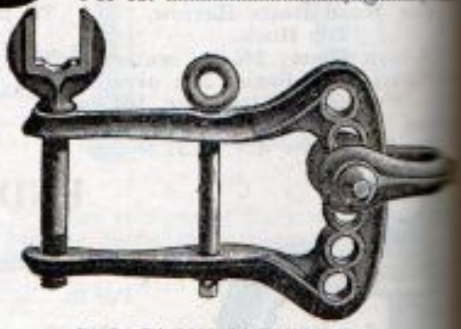
Per lb. ..... 15 .....

WOOD BEAM

Screw Pin

No. 2915—Center of wrench to center of pin, 4½ inches. Beam, 2¾ inches. Length of beam clevis, 9 inches. Eight holes.

Per lb. ..... 15 ..... $0.25



D. S. PLOW CLEVISES

Strong and durable. Bound to give satisfaction.

Each ..... 16 .....

NEW SWIVEL-END CLEVISES

Screw Pin

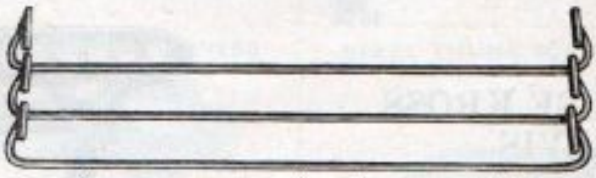
No. 100

This new Swivel Clevis can be attached to any plow clevis; used in place of shackle or end clevis; made of malleable iron; ¾ in. opening; 4¾ in. overall.

Per doz. ..... 225 ..... $3.00

ELEVATOR LINKS FOR POTATO DIGGERS

All Makes



Special Steel

Fit Guaran

	Gauge	Length	Links to Chain	Price per [illegible]
American	7/16 in.	22 in.	72	$0.[illegible]
New American	7/16 in.	22 in.	78	[illegible]
Brown	3/8 in.	22 in.	....	[illegible]
Champion	3/8 in.	19 in.	70	[illegible]
Dowden	3/8 in.	20 in.	80	[illegible]
Dowden	3/8 in.	22 in.	80	[illegible]
Hoover	3/8 in.	20 in.	94	[illegible]
Hoover	3/8 in.	22 in.	94	[illegible]
Hoover	7/16 in.	20 in.	94	[illegible]
Hoover	7/16 in.	22 in.	94	[illegible]
Iron Age	7/16 in.	20 in.	....	[illegible]
Iron Age	7/16 in.	22 in.	....	[illegible]
Pugh	3/8 in.	22 in.	80	[illegible]
Little Giant	7/16 in.	20 in.	83	[illegible]
Little Giant	7/16 in.	22 in.	83	[illegible]
Standard	3/8 in.	21 in.	70	[illegible]

10¼

WAGON STAKE IRONS

Pressed Steel.

Number	770	780
Size of pocket	1¾x3	1¾x3
Width of Steel	2½	3
Size of Bolt Holes	⅝	⅝
Per dozen	$2.50	$3.00

WAGON RUB IRONS

No.	Width Over All	Length Over All
155	2½ in.	5½ in.
156	2½ in.	7 in.

WAGON BOX STRAPS

Straight

	Length Over All	Length of Shank	Diameter of Shank
No. 16	12 in.	3¼ in.	⅝ in.
No. 17	14 in.	3¼ in.	⅝ in.
No. 18	16 in.	3¼ in.	⅝ in.
No. 19	18 in.	3¼ in.	⅝ in.

WAGON BOX RODS

	Diameter	Length
No. 39 Narrow track	⅝ in.	3 ft. 3 in.
No. 43 Wide track	⅝ in.	3 ft. 7 in.
No. 739 Narrow track	7/16 in.	3 ft. 3 in.
No. 743 Wide track	7/16 in.	3 ft. 7 in.

WROUGHT IRON WAGON WRENCHES

Made of heavy wrought steel; used as an evener pin.

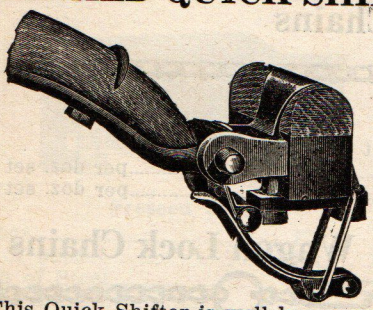
No. 1. Opening 2¼ inches, each $0.30
No. 2. Opening 2½ inches, each ..... .30
No. 3. Opening 2¾ inches, each ..... .30

MALLEABLE IRON CARRIAGE WRENCH

Deep Pattern

Size	B	C	D
Axle Nuts	⅞	1	1⅛
Length of Wrench	9	9½	10
Per dozen	$1.30	$1.40	$1.50

FERNALD QUICK SHIFT



This Quick Shifter is well known everywhere and has proven very satisfactory. Holds shafts or pole firmly, preventing all rattling.

Per dozen pairs.....$5.00 2.80

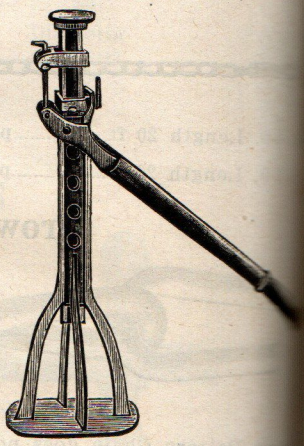
PERFECT ANTI-RATTLERS

No. 1 With Bolt Holders, per doz. pairs

No. 2 Plain, per doz. pairs.....

WAGON JACKS

Eureka



Light in weight but strong in lifting capacity.

Small in size but will easily raise a loaded wagon.

Suitable for raising many machines or objects.

Raises any height desired to 27 inches—not limited to certain heights.

It is 16 inches in height when lowered.

It is lowered by the same handle that raises.

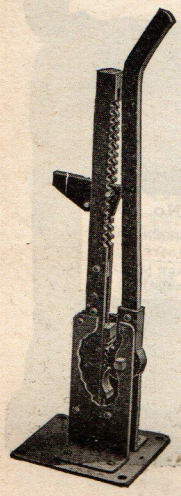
It is constructed of steel and malleable iron.

Not a bolt, spring, ratchet or rivet used in its construction.

There is nothing to wear out or get out of order.

It is the most durable and efficient jack manufactured.

Each ..... $2.50 #15 doz



Franklin

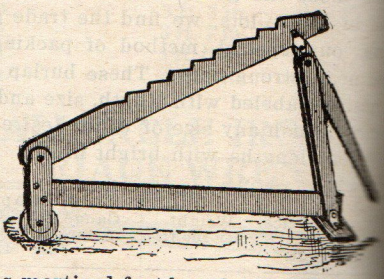
A powerful jack, operated by pinion and lever, and is so constructed that the greatest possible leverage is obtained. When the load is lifted and the handle is down the jack becomes locked and holds load in position until lever is raised.

No. 0. 500 lbs. Weight
70 lbs. Per doz.....$18.00 12.10

No. 1. 1000 lbs. Weight
130 lbs. Per doz..... 28.00 16.15

No. 2. 1800 lbs. Weight
170 lbs. Per doz..... 42.00 29.20

Favorite



Has mortised foot-board and steel bra

No. 0 Will raise vehicles of 1 ton; each.....

No. 00 Will raise vehicles of 2 tons; each.....

No. 000 Will raise vehicles of 3 tons; each.....

NEY'S SWIVEL REVERSIBLE SLING CARRIER

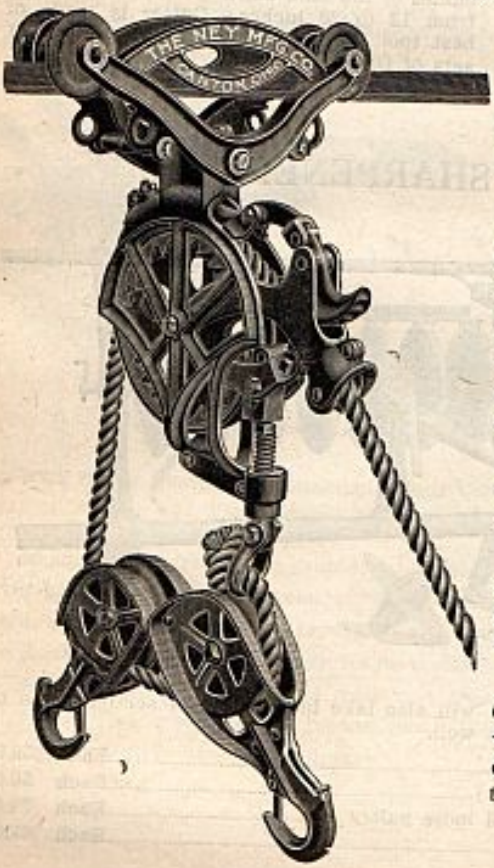
No. 250

Made of the best grade malleable iron. No springs, direct draft, light track wheels, swivel reversible, positive rope lock. This Carrier is swivel reversible, contains no springs, action automatic, eight track wheels extending over large track surface, wide flanged lifting pulleys prevent cutting or injuring the draft rope, large seven-inch heavy roller bearing draft wheel. Rope locking dogs extra heavy, long and positively do not injure nor cut the draft rope. Has right angle draft, rope passing over but one sheave, thus causing lightest possible draft. The carrier cannot fail to trip properly under all conditions. Note construction of tripping bale, which acts as correct and proper guide for lifting pulleys. One or two forks can be used equally as well as slings without any change being made in carrier. Built for extra heavy work and absolutely guaranteed to do its work properly under all conditions. We can supply this carrier to trip or release from trip block at any height desired. Finely finished in aluminum.

No. 250—Carrier complete $21.00

NEY CROSS DRAFT CARRIER

No. 190



Large 8-inch roller bearing draft wheel. Made of best grade malleable iron, extra heavy parts. Track wheels revolve on turned steel bushings. Lock is positive and cannot cut or injure the draft rope. Finely finished in aluminum.

The No. 190 Cross Draft Carrier illustrates our latest, with all the old "Cross Draft" features, together with new improvements, which makes No. 190 the "King" of them all. Attention is called to the new Rope Clutch or locking dog. It contains no springs and has patent adjustment so that the draft rope can be adjusted in harmony and directly in line with pitch of any roof.

By the use of washers this carrier can be adjusted to run on nearly every style or make of track.

The "swinging feature" allows carrier to be operated in full mow without any additional strain on track or carrier. It will pass over obstructions more freely.

It will lock and hold the load at any point. Can be used with one or two forks or slings without any change in the carrier. It can be changed almost instantly to run in either mow to right or left without leaving the barn floor.

No. 190 ..... Each $19.50

THE NEW CLIMAX OPEN THROAT CARRIER

For Steel Track

"Climax" for Steel Track (showing registering pulley completely encased in the throat).

(Showing registering pulley about to enter the throat).

With this carrier it is possible to fill the mow closer to the comb of the roof than with any other carrier on the market. The throat has an exceptionally large opening, and the simple locking mechanism is so arranged that the lifting head or pulley locks directly on the sides or frame of the carrier, not depending on separate dogs or locks to hold the load. It is constructed and operated without the use of springs, and engages projections upon lifting pulley in a line with axis of pulley. This permits the pulley to swing very near the track, and enables the carrier to work under conditions where any other carrier would necessarily fail.

Each $10.50

THE NEW CLIMAX OPEN THROAT CARRIER

For Wood Track

"Climax" for Wood Track (showing registering pulley completely encased in throat).

This carrier is made similar to the Climax Steel Track Carrier, except to run on a 4x4 in. wood track. The working parts are just the same, and guaranteed to give entire satisfaction.

Each $10.50

Registering Pulley

NEY'S No. 80 OPEN THROAT CABLE CARRIER

For ½ to ¾ inch Cable

The Cable Carrier is made to run on either ½, ⅝ or ¾ inch cable, or any other size between ½ to ¾ inch, the first three named sizes being known as standard sizes for cable carrier use.

The carrier is strong, reversible and easily operated. Travelers and sheaves throughout revolve upon large bushings. Trip block can be used without any change for any size of cable from ½ to ¾ inch. Locks entirely by gravity, thus doing away with springs. The lifting pulley is free to swing, after being locked to the carrier, to a horizontal position.

Each $10.50

25%

UNIVERSAL HAYCARRIER

Has Features Possessed by No Other Machine

The only hay car made that will lock a car at any height, and let the same back on the load if desired without the use of a trip rope.

The weight of the load is entirely controlled by the turning of the sheave in car.

It is very simple in construction with very few parts to get out of order.

Will unload from either barn floor or at the end of the barn without change of pulley.

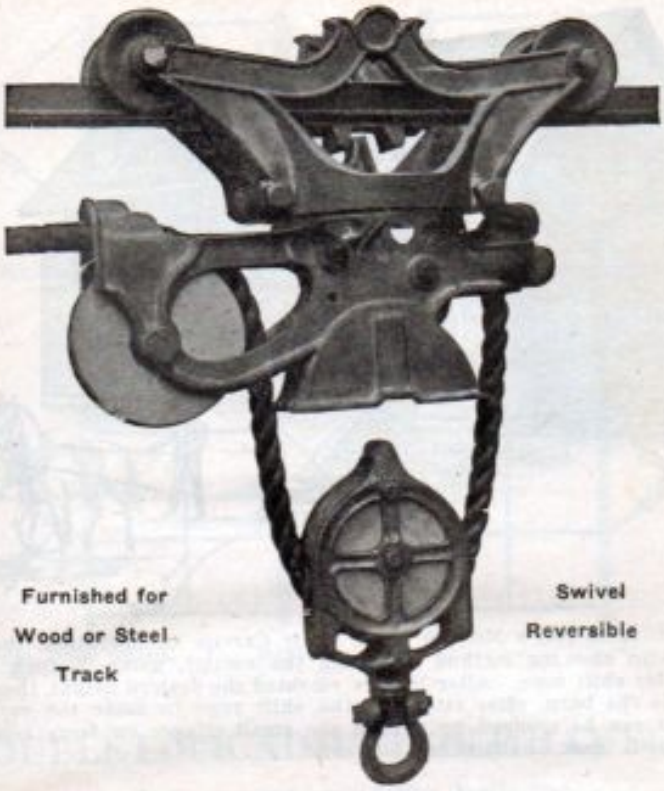
Will operate from any angle, independent of track locks, that locks both the rope and the car, making it absolutely secure, relieving strain and giving longer life to rope.

Will enable you to unload more quickly, will operate from the load to mow or from mow to wagon or hay baler and adjustable to any size track.

This car avoids hay packing, which causes enough loss by mow burning in one year to pay for a Universal Car.

Hay Carrier, steel track $16.80
Hay Carrier, wood track 16.80

OHIO HAY CARRIER



Furnished for Wood or Steel Track

Swivel Reversible

This carrier is made of the best malleable iron, fitted with large track wheels that run [illegible]urned pins. Has a positive and simple lock that never fails to work properly. The Ohio [illegible]el Track Carrier is designed especially to run on our Ohio Double Angle Steel Track and [illegible] be reversed to run either way from the stop. Weight, 27 pounds.

Steel Track ..... Each $9.00 7.95
Wood Track ..... Each 9.00 7.95

HAY CARRIER FIXTURES

25%

Improved Double Angle Track Hangers

[illegible] inches Standard Length.
[illegible] inches for Sling Carriers.

Per doz. $2.10

Rafter Brackets

Used in connection with both Steel and Wood Track Hanger Hooks.

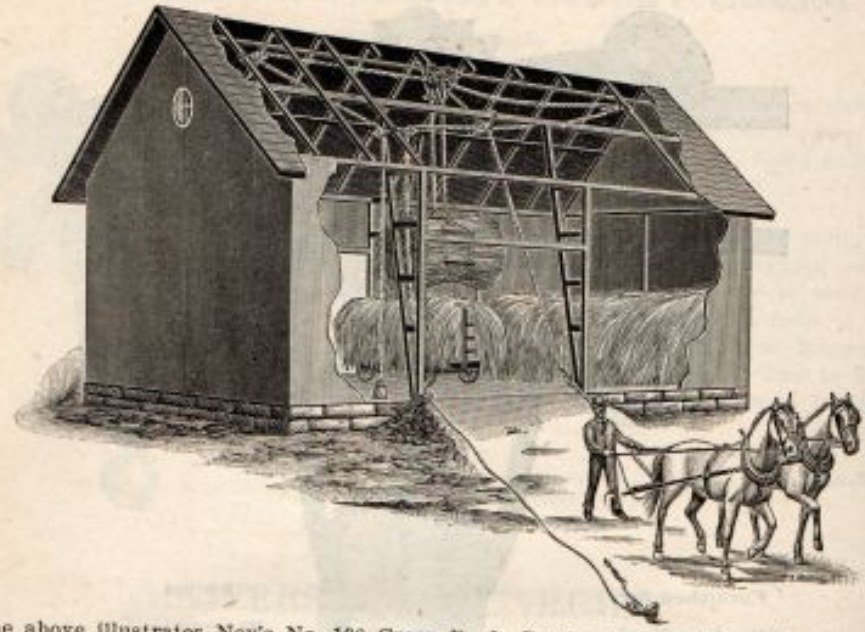
Malleable Iron, doz. $0.90
Wrought Iron, doz. 1.50

Ohio Double Angle Steel Track

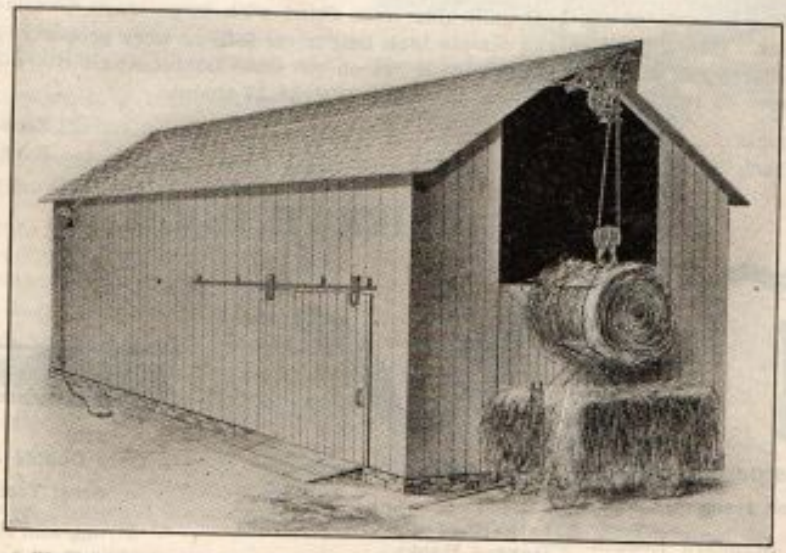
Strong and Heavy
6-8-12 Foot Lengths

Per foot $0.30 22

SLING HAY CARRIERS

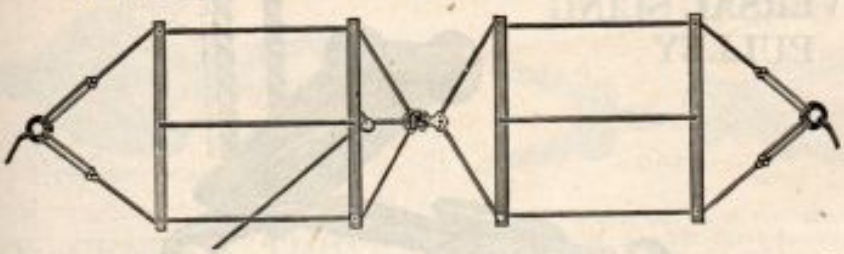


The above illustrates Ney's No. 190 Cross Draft Carrier in operation, the first sling being elevated. Also showing method of roping the carrier, using ⅞ inch for draft rope and 7/16 or ½ inch for shift rope. After load is elevated the desired height, the team is turned and driven towards the barn, after attaching the shift rope to move the carrier along the track. The carrier can be stopped by pulling the small trigger on large rope hook, which will release the small hook attached to shift rope.

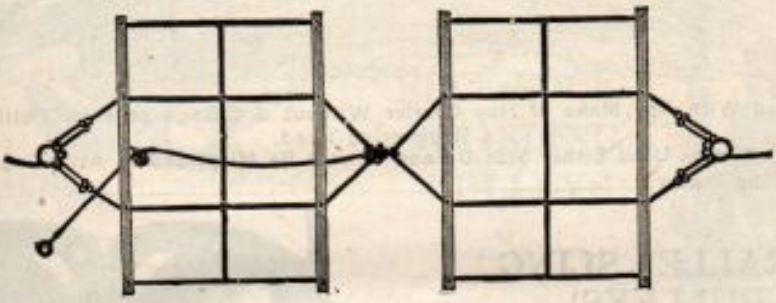


This cut illustrates Ney's No. 250 Carrier in use with slings. Note the right angle using common sling pulleys. It can be threaded for either parallel or right angle draft without any change in the carrier.

CENTER TRIP ADJUSTABLE SLINGS



No. 80—Three Ropes, 5 foot Bars.....Each $6.00



No. 79—California, Four Ropes, 6 foot Bars.....Each $7.50

DOUBLE LOCK ADJUSTABLE HAY SLING

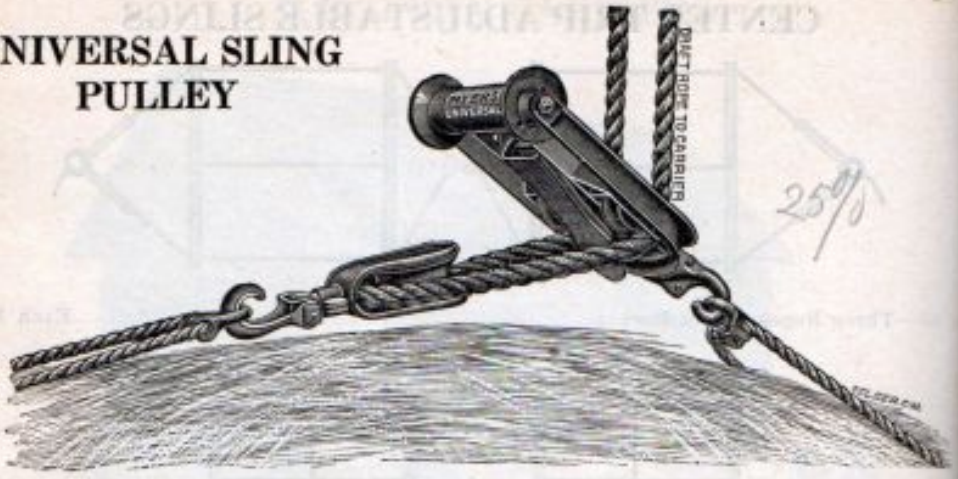
Connected and Locked with One Motion
No. 1308

The new Double Lock Sling, as made for handling hay or bundles of grain and fodder in the wagon.

A new design, having two connections between two halves of sling, instead of one center lock as generally used. Construction of double lock device is such that a hook and eye is used at one end of sling stick, and a lock at other end, thus making two separate connections, adding great strength, and causing load to be carried without dropping at each side. Connected and locked with one motion.

No. 1308—Double Lock Adjustable Sling, 6 foot .....Each $10.50

UNIVERSAL SLING PULLEY



Can Be Used With Any Make of Hay Carrier Without a Change of Fork Pulley or Using a Registering Head.

Can be Used Either Side Up and Cannot Be Misplaced in Attaching.

No. 1052—Sling Pulley ..... Each $4.[illegible]

PARALLEL SLING PULLEYS

The meeting edges are provided with wide flanges and their upper ends closed so that they cannot run into each other. No sharp corners to wear the rope. Hooks are fitted with self-acting Safety Stops to prevent Slings from becoming detached, and have large eyes fitted with sheaves suitable for Wire Hoisting Rope.

No. 650

No. 649 ..... Pair $[illegible]

No. 650 ..... Pair [illegible]

No. 203C

PARALLEL SLING PULLEYS

with 7-inch iron sheaves, fitted with [illegible] roller bearings, suitable for ⅜ to ⅝-inch [illegible] or wire rope.

No. 203C—Parallel Sling Pulleys, cable, pair ..... [illegible]

No. 303R—Parallel Sling Pulleys, rope, pair ..... [illegible]

REGISTERING PULLEYS

For No. 5 Carrier

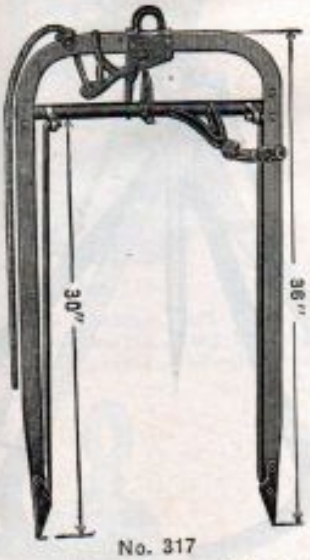
Each $1.50

NEY CENTER TRIP SLING LOCKS

Ney Sling Locks, the heaviest made, are used on all our slings.

Each $1.50

LOCK LEVER FORKS



No. 317

Made of high grade special spring steel, acts with one lever only and locks either open or closed.

This Fork is not any larger in size than our regular Double Harpoon Fork, except in width, being 19 inches wide, yet its capacity is one-half greater, by reason of the cross bar being nearer the top, and gathers the hay from the end of the points.

No. 317 ..... Each $5.65

BOSS CENTER TRIP SLING LOCKS

The lock is made of malleable iron in one size only; has but three pieces; is light, strong and durable.

Each $1.50

SELF-LOCKING SLING PULLEYS

These pulleys can be fitted with all styles of registering Heads to fit any style of carrier made.

Per pair $4.50

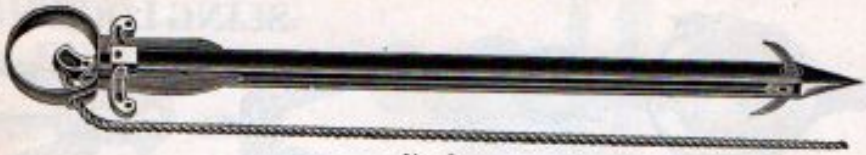
COMMON SLING PULLEYS

Common Sling Pulleys with end trip, used for either two or three rope slings, on sling carrier. Positive trip lock that cannot get out of order.

No. 328—End Trip Sling Pulley,

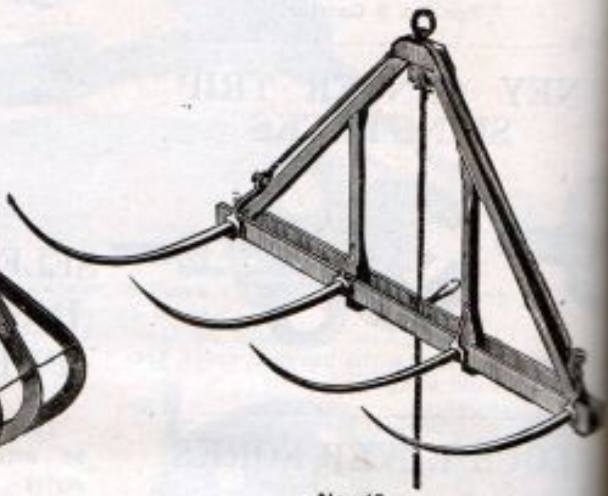
each $3.00

HAY FORKS



No. 9

No. 12



No. 13

No. 1

Automatic

No. 7

No. 4

	Each
No. 11—Four tine grap.	$13.50
No. 12—Six tine grapple	15.75
No. 13—Jackson	
3½ foot head, 4 tine	$18.00
4 foot head, 4 tine	18.75
4½ foot head, 4 tine	19.50
5 foot head, 6 tine	23.25
6 foot head, 6 tine	24.40

	Each
No. 1—Double Harpoon Fork, 25-in. tine	[illegible]
No. 2—Double Harpoon Fork, 31-in. tine	[illegible]
No. 3—Double Harpoon (Alfalfa) Fork, 34-in. tine	[illegible]
No. 4—Four-tine Grapple Fork	[illegible]
No. 6—Six-tine Grapple Fork	[illegible]
No. 7—Walker Single Fork	[illegible]
No. 9—Nellis Single Fork	[illegible]

HAY FORK PULLEYS

No. 114

No. 121

No. 139

No. 114—Plain Cast Frame, 6-inch hard Maple Sheave ..... Per doz. $4.80
No. 121—Plain Steel Frame, 6-inch hard Maple Sheave ..... Per doz. 5.25
No. 139—Plain Malleable Frame, 6-inch hard Maple Sheave ..... Per doz. 6.75

No. 118

No. 110

No. 133

No. 118—Knot passing Cast Frame, 6-inch hard Maple Sheave ..... Per doz. $ 6.00
No. 110—Knot passing Steel Frame, 6-inch hard Maple Sheave ..... Per doz. 6.00
No. 133—Knot passing Malleable Frame, 6-inch hard Maple Sheave ..... Per doz. 12.00

No. 115

No. 111

No. 112

No. 115—Plain Cast Frame, 5-inch Iron Sheave ..... Per doz. $6.25
No. 111—Wrought Iron Yoke, Hardwood Frame, 5-inch Maple Sheave ..... Per doz. 6.00
No. 112—Same as No. 111, with Swivel Hook instead of Eye ..... Per doz. 6.00

HAY FORK PULLEYS

No. 131

No. 135

No. 131C

No. 135 —Heavy Steel Frame, 7-inch Iron Sheave for 1¼-inch rope or smaller, fitted with mall. iron clevis and swivel; has steel bushing and heavy axle. Designed especially for heavy work.....Per doz. $21.

No. 131 —Heavy Steel Frame, with 7-inch Iron Sheave for ⅝ or ½-inch wire rope (especially adapted for use on derricks); has steel bushing, roller bushed, a strong hook, and designed for heavy work .....Per doz. 21.

No. 131C—Same as No. 131, except has brass cage for roller bushing.....Per doz. 22.

No. 130

No. 103

No. 101

No. 894

No. 130—1⅛-Inch Hard Maple Wood Frame with Steel Yoke; large roller bearings and heavy steel forged hook, 8-inch heavy iron sheave. For ⅜ to ½-inch cable. Price .....Per doz. $36.

No. 103—Floor Pulley, Mall. Frame, 4-inch hard maple sheave .....Per doz. 1.

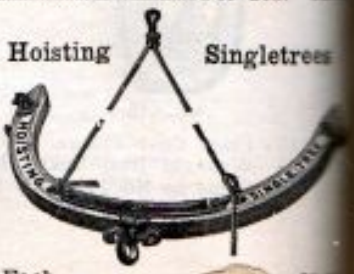
No. 101—Trip Rope Pulley, Mall. Frame, 1-inch iron sheave .....Per doz. 1.

No. 894—Wood Frame Sling Pulley, 2-inch hardwood sides, riveted wrought strap throughout, steel hood, wood sheave.....Per doz. 12.

WOOD AND IRON PULLEY SHEAVES

4 -inch, Wood	Per doz.	$2.40
5 -inch, Wood	Per doz.	2.40
6 -inch, Wood	Per doz.	2.40
8 -inch, Wood	Per doz.	6.00
5 -inch, Iron	Per doz.	3.00
5½-inch, Iron	Per doz.	3.00
6 -inch, Iron	Per doz.	3.30

Hoisting Singletrees



Each .....

HAY TOOL FIXTURES

Assorted lengths to give the track an incline towards the unloading point, when desired.

HANGER HOOKS

For Double Angle Track

No. 66—4½ in. long, doz. $2.10
No. 67—5½ in. long, doz. 2.10
No. 68—6½ in. long, doz. 2.10
No. 69—7½ in. long, doz. 2.10
No. 70—8½ in. long, doz. 2.10

BOARD HOOK

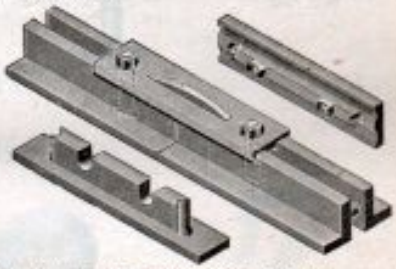
No. 23—8½ in. long, doz. $2.10

OPEN EYE HOOK

No. 19—5½ in. long, doz. $2.10
No. 20—7½ in. long, doz. 2.10

By the use of these hooks the track can be easily removed.

25%



Double Angle Steel Track

The strongest and heaviest Hay Carrier Track made. 6, 8 and 12 ft. lengths.

Per foot $0.30

COMBINATION PULLEY FASTENER AND CARRIER STOP

For attaching a pulley to ends of track and to prevent carrier from running off the track.

Per doz. $3.00

RAFTER GRAB

Made large and heavy from best spring steel. A very convenient tool with which to quickly transfer a pulley from one part of a barn to another.

Per doz. $15.00

SWIVEL ROPE HITCH

Per doz. $4.80

CARRIER-TRIP BLOCKS

For Steel Track

For Wood Track

Each $0.75

HAY TOOL FIXTURES

No. 20

No. 21B

25% -D

No. 22

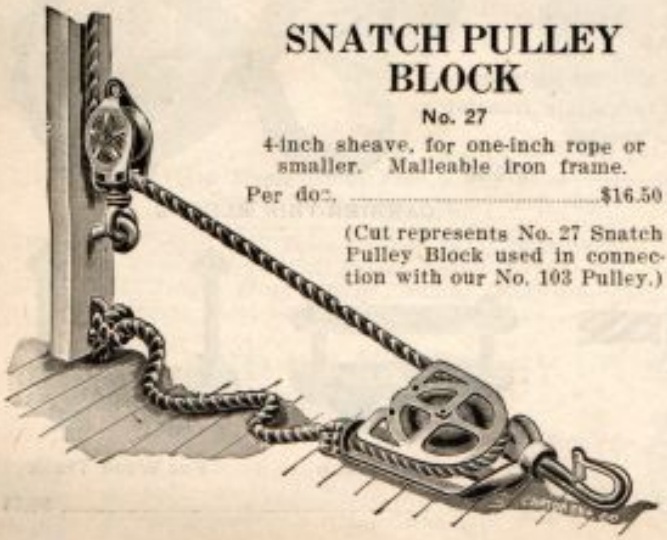
No. 25—Malleable Rafter Bracket

No. 26—Crimped Steel Rafter Bracket

No. 24—Barbed Rafter Nail

No. 20—⅝ in. Floor Hook	Doz.	$1.80
No. 20A—¾ in. Floor Hook	Doz.	2.10
No. 24—Barbed Rafter Nail	per lb.	.15
No. 25—Mall. Rafter Bracket	Doz.	.90
No. 26—Steel Rafter Bracket	Doz.	.90

No. 21—10 in. W. T. Hgr. Hook	Doz.	[illegible]
No. 21A—12 in. W. T. Hgr. Hook	Doz.	[illegible]
No. 21B—14 in. W. T. Hgr. Hook	Doz.	[illegible]
No. 21C—16 in. W. T. Hgr. Hook	Doz.	[illegible]
No. 22—Jointed W. T. Hgr. Hook,	Doz.	[illegible]



SNATCH PULLEY BLOCK

No. 27

4-inch sheave, for one-inch rope or smaller. Malleable iron frame.

Per doz. $16.50

(Cut represents No. 27 Snatch Pulley Block used in connection with our No. 103 Pulley.)

CABLE CLAMP

Single

Doub[illegible]

For securing Cable us[illegible] Field Stacking Outfit.

Single ..... Doz. [illegible]

Double ..... Doz. [illegible]

NEY MONARCH STEEL HOISTS

Patented

They elevate, lower, lock and unlock with one r only. They can be used in any position, horizontal perpendicularly, or at any angle, this being a decid advantage. Note the swiveling features both at and bottom. These "swivels" allow the operator adjust the load, in raising or lowering, to any po tion desired. All parts are made of best grade steel and malleable iron, and each hoist is absolut guaranteed to give entire satisfaction. The lock adjustable and can be placed at any angle. All ho without rope unless otherwise ordered.

Price List of Ney Monarch Hoists

No.	No. of Sheaves	Diam. of Sheaves	Size of Rope	Approx. Work Load	One Man Can Lift	Pr
26	3	5 in.	¾ to ⅞	4000	800	$12
28	2	5 in.	¾ to ⅞	4000	600	1
30	1	5 in.	¾ to ⅞	4000	500	
32	3	4 in.	⅝ to ¾	3000	700	
34	2	4 in.	⅝ to ¾	3000	500	
36	1	4 in.	⅝ to ¾	3000	350	
38	3	3 in.	⅝ to ⅝	1500	600	
40	2	3 in.	⅝ to ⅝	1500	400	
42	1	3 in.	⅝ to ⅝	1500	200	

NEY MERCHANDISE CARRIER

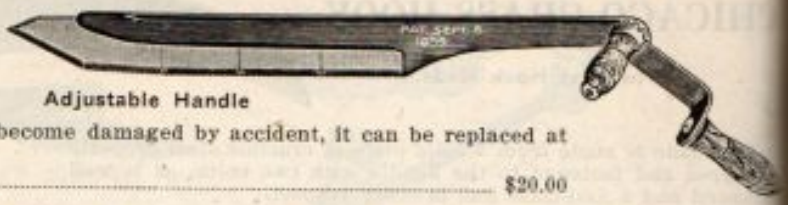
No. 105

Can be used in stores, warehouses, factories, distilleries, mills, barns, etc. Travels on Ney Double Angle Steel Track. Made of malleable iron. Capacity of hoisting apparatus, 2,000 lbs. One man can lift 500 lbs. Uses either ¾ or ⅞-inch rope. The Rope Hoist is directly attached to the carrier by means of a swivel, enabling the operator to turn the load in any direction. Hoist locks and unlocks with one rope only; no losing control of the load by handling an extra trip rope.

No. 100—Carrier with Hoist	Each	$14.00
No. 105—Carrier without Hoist	Each	7.00
Double Angle Steel Track	Per ft.	.30
Open Eye Track Hooks	Per doz.	2.10

No. 100

AMERICAN SICKLE EDGE HAY KNIVES

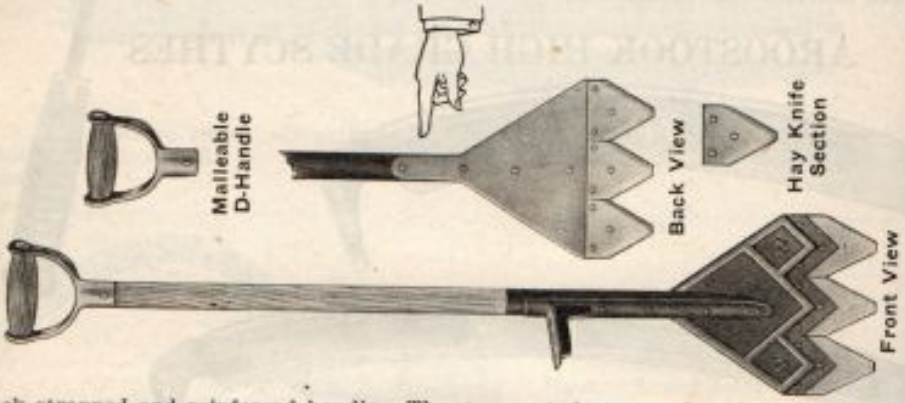


Adjustable Handle

Should a section become damaged by accident, it can be replaced at a small cost.

Per dozen $20.00

CLEARING IMPROVED HAY KNIFE



Back strapped and reinforced handle. The strongest, fastest and easiest cutter made.

Per dozen $2

WENZELMANN HAY RACK FIXTURES

No Boring of Holes in Timbers

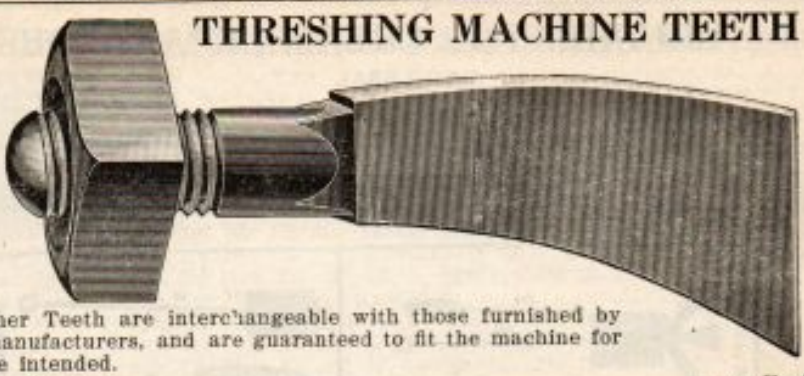
Full Strength Retained

	Per doz. Sets.
No. 1—⅝x14 in. Hay Rack Clamps	$27.00
No. 2—⅝x16 in. Hay Rack Clamps	28.80
No. 3—⅝x18 in. Hay Rack Clamps	30.60

	Per d Sets
No. A1—$\frac{7}{16}$x14 in. Hay Rack Clamps	$3
No. A2—$\frac{7}{16}$x16 in. Hay Rack Clamps	31
No. A3—$\frac{7}{16}$x18 in. Hay Rack Clamps	32

Packed one set in a box.

THRESHING MACHINE TEETH



Our Thresher Teeth are interchangeable with those furnished by original manufacturers, and are guaranteed to fit the machine for ch they are intended.

gular Teeth, with nuts ..... Each $0.20
el Laid Teeth, with nuts ..... Each .30

We are prepared to make Special Thresher Teeth or Special Drop Forgings for manufrers. Send sample and specifications.

TIGER ADJUSTABLE RATCHET CYLINDER WRENCH

Guaranteed to Tighten Every Tooth on the Cylinder.

Every thresherman realizes the necessity of a perfect ratchet cylinr wrench, by means of which he can easily and quickly tighten all teeth on his cylinder. It saves valuable time during the busy thresh- season, and is the handiest and most convenient tool about a thresh- outfit. In ordering give name of Thresher or size and style of nut.

Each $4.50

POSITIVE NUT LOCK WASHER

Each

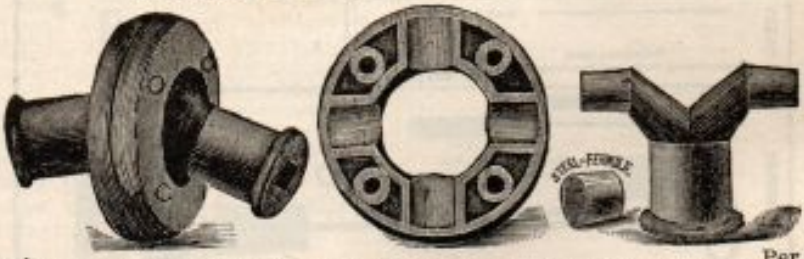
e carry in stock all sizes; ⅝-inch is generally used for cylinder teeth.... $0.03

CLOVER HULLER TEETH

Each

We carry in stock teeth to fit all makes of Clover Hullers. Per tooth, with nut $0.15

HORSE-POWER COUPLINGS



ze 1 inch ..... Per doz. $18.00
ze 1⅛ inch ..... Per doz. 18.00
ze 1¼ inch ..... Per doz. 18.00

VISEGRIP WRENCHES

Pocket size, 4 inches long; holds pipe ⅛ to ¼; round iron ¼ to 5/16.

No. 0 ..... 1.15 ..... Per Doz. $3.00

No.	Inches Long	Holds Pipe	Holds Round Iron	Price Per doz.
2	9	⅜ to ¾	½ to 1	$12.00
2½	12½	⅜ to 1	⅝ to 1¼	18.00
3	16	½ to 1¼	¾ to 1⅜	24.00
4	22	1¼ to 2	1½ to 2½	36.00
4½	24	1¼ to 2½	1⅝ to 3	50.00
5	27	2 to 3	2¼ to 3½	60.00

5¾ inches long; holds pipe ⅛ to ⅜; holds round iron ¼ to ¾.

No. 1 ..... 1.20 ..... Per Doz. $4.00

Twin. 10 inches long; holds pipe ⅛ to ¾; holds round iron ¼ to 1.

No. 10 ..... 1.70 ..... Per Doz. $18.00

5¾ inches long; holds pipe ⅛ to ⅜; holds round iron ¼ to ¾.

No. 1½ ..... 2.10 ..... Per Doz. $4.50

7 1/16 inches long; holds pipe ⅛ to ¾; holds round iron ⅝ to 1⅛.

No. 1¾ ..... 3.75 ..... Per Doz. $8.00

No. 11—Gun Metal Finish

Holds nuts ½ to ¾; holds pipe ⅛ to ⅝; holds round iron ¼ to ¾.

No. 11 ..... 1.40 ..... Per Doz. $4.50

"ALWAYS READY" WRENCHES

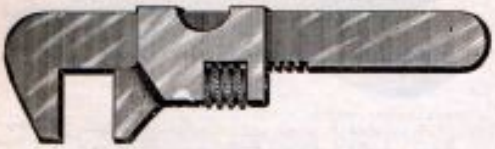
25% Polished and Nickel Plated

Black Finished. Polished Jaws. 30%

No.	Length	Holds Square or Round	Per Doz. Nickel	Per Doz. Black
1	5	¼ to ¾	$ 5.00	$ 4.60
2	7	¼ to 1¼	6.75	6.30
2½	9½	¼ to 1¾	10.50	10.00
3	11½	¾ to 2	16.00	15.25

WRENCHES

No. 6 Bicycle



Steel Bar—Solid Jaw

Length, 5¼ in. Jaws, ¾x$\frac{7}{32}$, opens 1⅜ in.
White finish ..... Per doz. $4.50
Nickel plated ..... Per doz. 5.00

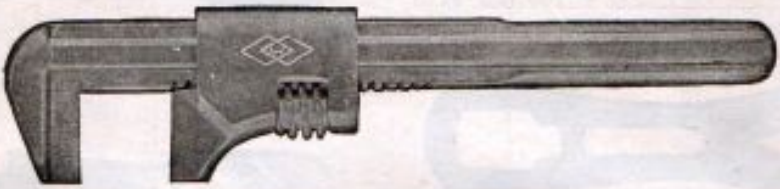
Jarvis Bicycle

Drop Forged

Length, 5½ in. Jaws ¾x¼, opens 1½ in.
Black finish ..... Per doz. $4.50
Nickel plated ..... Per doz. 6.00

WHITAKER FORGED AUTOMOBILE

A High Grade Tool



Drop forged from the best grade of steel for this purpose.

	Black	Nickel
7 inch, per dozen	$5.00	$10.00
8 inch, per dozen	6.00	10.50
9 inch, per dozen	6.50	11.00

HEAVY MACHINE AND AUTO

Drop forged from a high grade of bar steel, especially made for the purpose for which it is used. The movable jaw is of solid steel, and both jaws are tempered, preventing the edges from being battered or worn off. The great strength of these wrenches renders them invaluable for heavy work.

11 inch, black finish. Jaws 2⅝x$\frac{7}{16}$ inch. Opens 2⅛ inches ..... Per doz. [illegible]
14 inch, black finish. Jaws 3 x⅝ inch. Opens 2½ inches ..... Per doz. [illegible]
18 inch, black finish. Jaws 3¾x¾ inch. Opens 3 inches ..... Per doz. [illegible]

WHITAKER "ALL STEEL" SCREW WRENCH

Forged Steel Bar

This Wrench is of the same general construction and finish as our "Whitaker" Machinist's Knife Handle Wrench, except it is fitted with our new pattern iron handle.

Price List

6 inch	Per doz. $10.00	12 inch	Per doz. $18.00
8 inch	Per doz. 12.00	15 inch	Per doz. 24.00
10 inch	Per doz. 14.00	18 inch	Per doz. 32.00

WHITAKER KNIFE HANDLE SCREW WRENCH

Machinists' Pattern

Drop-Forged Steel Bar

The Whitaker Knife Handle Wrench has a drop forged steel Head and Bar, Steel Screw and Knurl, hardwood handles, all wearing parts case hardened, opens full length of screw. Each wrench is carefully tested and inspected and guaranteed highest standard of quality.

Price List

6 inch	Per doz. $10.00	12 inch	Per doz. $18.00
8 inch	Per doz. 12.00	15 inch	Per doz. 24.00
10 inch	Per doz. 14.00	18 inch	Per doz. 32.00
21 inch	Per doz. $39.00		

AGRICULTURAL SCREW WRENCH

Drop-Forged Steel Bar

This wrench has extra Heavy Forged Steel Bar and Head—forged from one piece—deep milled, screw thread—steel knurl—opens full. Every wrench fully warranted.

Price List

6 inch	Per doz. $10.00	10 inch	Per doz. $14.00
8 inch	Per doz. 12.00	12 inch	Per doz. 18.00
15 inch	Per doz. $24.00		

TRIPLE DIAMOND ADJUSTABLE WRENCH

Drop Forged and Polished

6 inch	Per doz. $ 7.80	10 inch	Per doz. $12.00
8 inch	Per doz. 9.60	12 inch	Per doz. 18.00

CRESCENT ADJUSTABLE WRENCH

Drop Forged and Polished

Size	Weight	Capacity	Dozen	Size	Weight	Capacity	Dozen
6 in.	5 oz.	¾	$7.80	10 in.	18 oz.	1⅛	$12.00
8 in.	10 oz.	1⅛	9.60	12 in.	32 oz.	1 5/16	18.00

ADJUSTABLE "S" PIPE AND NUT WRENCHES

Nut Wrench, Fig. 53

Pipe Wrench, Fig. 57

6-inch opens to ¾ inch	Doz. $ 8.00
8-inch opens to 1 inch	Doz. 10.00
10-inch opens to 1⅜ inch	Doz. 12.00
12-inch opens to 1⅝ inch	Doz. 15.00
14-inch opens to 2 inch	Doz. 21.00

6-in. takes pipe from ⅛ to ⅝ in.	Doz. $12.00
8-in. takes pipe from ⅛ to ¾ in.	Doz. 15.00
10-in. takes pipe from ⅛ to 1 in.	Doz. 18.00
12-in. takes pipe from ⅛ to 1¼ in.	Doz. 24.00

"WHITACO" PIPE WRENCH

Drop Forged Steel

60-8%

They're Made Tough to Stand Abuse—Fully Guaranteed

Size, inches	Capacity, inches	Weight, oz.	Price Polish Finish
6	⅛ to ½	5	$ 2.00
8	⅛ to ¾	11	2.25
10	⅛ to 1	24	2.50
14	¼ to 1½	45	3.50
18	¼ to 2	72	5.00
24	¼ to 2½	133	7.25
36	¼ to 3½	240	13.50

(Packed ½ dozen in a box)

60-3%

EXTRA PARTS

Size, inches	Jaws	Frame	Steel Handle	Nuts	Spring	Frame Pins
6	$ .75	$ .38	$ .95	$ .12	$ .10 each	$ .03 each
8	.80	.42	1.00	.15	.10 "	.03 "
10	.85	.50	1.10	.20	.10 "	.04 "
14	1.15	.60	1.50	.30	.10 "	.04 "
18	1.75	.75	2.25	.35	.10 "	.04 "
24	2.25	.95	3.50	.55	.11 "	.04 "
36	4.35	1.70	7.00	1.10	.13 "	.05 "

BEMIS & CALL COMBINED PIPE AND NUT WRENCH

BRIGHT, WITH LONG NUT

Short Nut

Adj. Inches		
8-inch, ¼ to ¾	Doz.	$21.00
10-inch, ¼ to 1	Doz.	23.00
12-inch, ½ to 1¾	Doz.	26.00
15-inch, ½ to 2¼	Doz.	37.00
18-inch, ½ to 3	Doz.	66.00

Long Nut

Adj. Inches		
8-inch, ¼ to ¾	Doz.	$23.00
10-inch, ¼ to 1	Doz.	25.25
12-inch, ½ to 1¾	Doz.	28.50
15-inch, ½ to 2¼	Doz.	40.50
18-inch, ½ to 3	Doz.	72.00

This wrench can be furnished in either bright or black finish at the same list.

TELESCOPE WRENCHES

Length 4¼ in. Jaws ¾x¼ in. Opens 1⅜ in.

This is a very handy wrench, as the beam is telescoped by the jaw handle and it can be used in a very small place.

Black Finish, per doz. $6.70

No. 14

Length 4¼ in. Jaws ¾x¼ in. Opens 1⅜ in.
This is a Very Handy Wrench, as the Beam is Telescoped by the Jaw Handle and it Can Be Used in a Very Small Place

Black Finish ..... Per Doz. $6.70

ARNHOLT MALLEABLE WRENCH

(Deering Pattern)

⅞, ½, ⅝ and ¾ inch openings.
Square hole, ½ inch opening.
Oblong hole, $\frac{7}{16}$x$\frac{13}{32}$ inch opening.
7¼ inches long.

Per dozen $1.50

DOUBLE END RATCHET WRENCHES

For Carriage and Tire Bolts

Designed for general blacksmith and wheelwright. Nuts removed or set quickly. No other tool required.

No. 1—6 in., for $\frac{5}{16}$ & ¼ in. Tire Bolts, per doz. $12.00
No. 2—7 in., for $\frac{5}{16}$ & ⅜ in. Tire Bolts, per doz. 16.00
No. 3—8 in., for $\frac{7}{16}$ & ½ in. Tire Bolts, per doz. 20.00

MALLEABLE GENERAL PURPOSE WRENCHES

HEADS POLISHED

Sold in sets of 5 wrenches. Very handy for farmers and light repair work.

Number	M1	M2	M3	M4	M5
Size Openings	⅜ & ½	$\frac{9}{16}$ & ⅝	$\frac{11}{16}$ & ¾	$\frac{13}{16}$ & ⅞	$\frac{15}{16}$ & 1⅛
Size Bolts	$\frac{5}{16}$ & ¼	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{1}{2}$ & ⅝	⅝ & $\frac{7}{16}$	$\frac{7}{16}$ & ½
Each	$0.12	$0.16	$0.20	$0.25	$0.30

Set of 5 Wrenches in cardboard box ..... Per set $ 1.15
Per Case of 24 set ..... Per case 28.00

STEEL TUBE BRACE WRENCHES

For Square and Hexagon Nuts

Openings	½	$\frac{9}{16}$	⅝	¾	⅞	1	1⅛	1¼
Size Bolts	¼	$\frac{5}{16}$	⅜	$\frac{7}{16}$	½	⅝	$\frac{9}{16}$	¾
Per [illegible]	$5.00	$5.50	$6.30	$7.90	$9.50	$11.00	$10.25	$13.50

No. 400. RITCHIE WRENCH SET

Especially Adapted for Automobile Owners' Use

The wrenches in this kit are made of the finest quality crucible steel, ⅛ inch thick, carefully hardened and tempered in oil.

Wrench "A" is made with one jaw in alligator shape, the upper part being sharply serrated—the lower smooth.

Wrench "B" will take hexagon bolts at both ends. The large opening takes ⅞ inch bolts—the smaller, ½ inch bolts.

Wrench "C" will take ⅝ inch square and hexagon bolts on the large end and 5/16 inch square and hexagon, 5/16 square bolts and screw-driver blade, 5/16 inch side on the small end.

Wrench "D" will take ¾ inch square and hexagon bolts on the large end and ⅜ inch bolts on the small end; bolt and hook on small end.

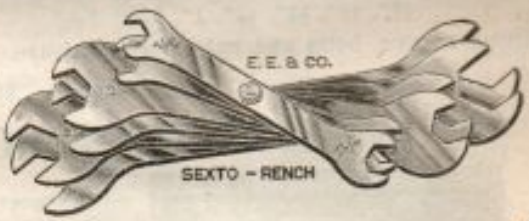
No. 400 Ritchie Wrench Set. Net weight per kit, 9 ounces.

Per Set $0.60

"SEXTO" WRENCHES

Six wrenches combined in one. They are all double end thin wrenches made from steel 1-10 inch thick. Very handy for adjusting magnetos, valve tappets, generator parts, bolts, nuts, etc., around an auto or motorcycle. Highly polished and nickel plated. Sizes range from 2½ inches to 4½ inches long.

Complete Set.....Each $0.75



O. K. FORGED SPARK PLUG WRENCH

Drop-forged from steel, designed for convenience and reliable service about automobiles, motor boats, gasoline engines, etc.

Box End—⅞ in. opening for ½ in. Spark Plug. **Open End**—For Tire Lug or ⅝ in. Hex. Nut.

Price, semi-finished ..... Each $0.60

This wrench fits only those size spark plugs that are ⅞ in. diameter on the hex. of the nut—not necessarily ⅞-18 A. L. A. M. size. Measure your plugs before ordering.

VISEGRIP WRENCHES

PONY

Small end holds ⅛ to 5/16 round, large end holds ¼ to ¾ round—tempered and polished

Half dozen in box.

Per dozen $6.50

SOCKET WRENCH SETS

AUTO CLE SETS

The Large Auto Cle Set consists of Nickel Plated reversible ratchet, one Universal Joint which permits wrench to be used at any angle. Two Extension Bars, Two Screw Driver Bits and 31 Pressed Sockets including one Special Spark Plug Wrench.

These Sockets will fit all screws and nuts used on Automobiles. The Small Auto Cle Set is contained in a Leather Case. It is the same as the Large set, except that twelve sizes of sockets are furnished.

	Per set
Large Size in Wood Case, 31 Sizes	$10.00
Small Set in Leather Case, 12 Sizes	7.50

No. 7 SOCKET WRENCH SET

For Millwright and Factory Use

In wooden case containing one offset socket wrench and one straight socket wrench with fourteen sizes of hexagon, mottled, case hardened, pressed steel sockets as follows:

$\frac{13}{32}$", $\frac{15}{32}$", $\frac{17}{32}$", $\frac{19}{32}$", $\frac{5}{8}$", $\frac{21}{32}$", $\frac{23}{32}$", $\frac{25}{32}$", $\frac{13}{16}$", $\frac{27}{32}$", $\frac{29}{32}$", 1", $1\frac{1}{32}$", $1\frac{3}{32}$"

fitting screws, bolts and nuts in general use.

No. 7—Socket Wrench Set, Price.....$5.00

No. 14 SPECIAL SOCKET WRENCH SETS

Largest and Most Complete Wrench Set Made for Machinist, Automobile Repairmen and Marine Engineers

This set contains the following:

1 Ratchet wrench and extension bar
1 Take down handle and extension bar
1 Offset socket wrench
1 Gripsall pipe wrench
1 General service wrench set—10 different openings
1 Universal joint
3 Special spark plug sockets, viz: $\frac{13}{32}$, $1\frac{1}{32}$, $1\frac{3}{32}$ in.
3 Screw driver bits, 1 cotter pin tool
23 Sizes mottled hex. sockets
11 Sizes mottled square sockets, viz:

Price, No. 14, in wood box.....Each $18.00

FORD SPECIAL SOCKET WRENCH SET No. 15

The No. 15 set is for exclusive use on Ford Cars and completely covers all adjustments that are found on these machines. Contains the following:

1 Ratchet Socket Wrench
1 Tubular Extension Bar
1 Universal Joint
1 Screw Driver Bit
1 Spark Plug Socket

1 Special $\frac{13}{32}$ oval Socket for three Crank Shaft bearing bolts. 1 each regular mottled thoroughly hardened pressed steel socket, viz: [illegible] hex. $\frac{17}{32}$, $\frac{19}{32}$, $\frac{21}{32}$, $\frac{23}{32}$, $\frac{25}{32}$, $\frac{27}{32}$, $\frac{29}{32}$, [illegible] sockets square, $\frac{15}{32}$-$\frac{19}{32}$ in.

Per [illegible] 50

4.45

UNIQUE RACHET SET

This set is machine made in all its parts. Contains the following:

1 Drop Forged Handle, 9 inches in length.

1 Extension Bar, 8 inches in length with thimble attached.

15 Hexagon Sockets to fit all size nuts within $\frac{3}{16}$ to 1¼ inches **broached opening.**

The sockets fit all S. A. E. Standards from ¼ to ⅞ inches.

U. S. Standard from $\frac{3}{16}$ to ¾ inches (bolt).

Cap Screw sizes from ¼ to 1 inch.

Put up in strong wooden box.

No. 44 .....Per set $12.00 8.40

SOCKET WRENCH SET

For General Farm Use

Sockets sized and fitted, finish dull baked enamel. Made of non-breakable malleable iron. Packed in durable cardboard box.

No. 100 Wright Wrench Set contains Open head Ratchet Wrench 11 in. long, 3 Hex Sockets, ½, ⅝, ¾, 3 Square Sockets, ½, ⅝, ¾. Sockets are U. S. standard nut sizes. Weight per set, 3½ lbs.

No. 100—Wright Wrench Set, list.....$2.40 1.70

No. 200 Wright Wrench Set contains open-head Ratchet Wrench 14 in. long, 3 Hex Sockets ½, ⅝, ¾, 3 Square Sockets, ½, ⅝, ¾. Sockets are U. S. standard nut sizes. Weight, per set, 4 lbs.

No. 200—Wright Wrench Set.....$2.60 1.85

Extra sockets, each ..... .30 .20

TOOL BOX KIT

For Ford Cars

This tool box kit contains a socket wrench, Champion X Spark plug wrench, oval and 5 hexagon sockets. Made of high grade malleable iron, baked enameled finish. Packed in strong wooden box.

No. 61—Tool Box Kit.....Each $1.40

LANE'S RATCHET WRENCH SETS

Ford Set

This Ford set contains the following: 1 handle, 7 inches in length; 2 screw-driver bits; 1 extension bar, 6 inches in length; 6 sockets to fit all nuts and bolt heads on Ford cars, including the cylinder head.

All forged. Put up in strong leatherette case. Weight, 22 ounces

No. 37 .....Per set $5.30 2.45

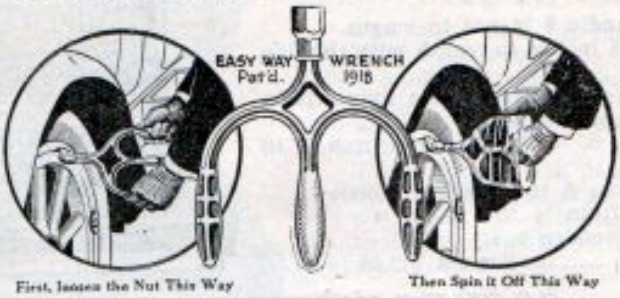
THE STANDARD SET

The Standard set contains the following: 1 handle, 7 inches in length; 2 screw-driver bits; 7 sockets to fit all size nuts in U. S. Standard from ¼ inch bolt to ½ inch bolt; S. A. E. Standard from $\frac{3}{16}$ inch bolt to ¼ inch bolt. Cap screws from $\frac{3}{16}$ inch bolt to ⅝ inch bolt.

Forged. Put up in strong leatherette case. Weight, 18 ounces.

No. 43.....Per set $5.30 2.45

EASYWAY RIM WRENCHES



First, loosen the Nut This Way — Then Spin it Off This Way

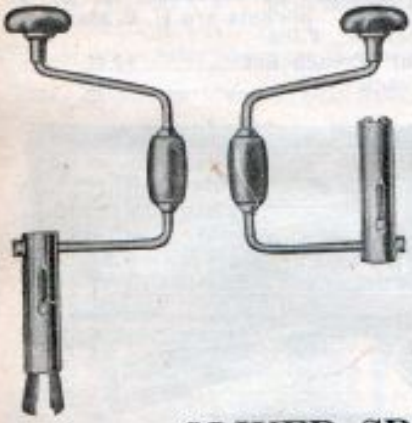
This wrench which has three handles allows both hands to be used. It provides a great leverage with little effort.

Easily removes the nuts that have become rusted very quickly from all styles of rims.

Made in three sizes for all cars: ⅝-inch for Kelsey Rims; $\frac{11}{16}$-inch for Firestone, Continental, Stanweed, Fisk, Fisk Dem, and Goodrich; ¾-inch for Baker Rims, Detroit and Goodyear; all sizes.

Each $1.00

THE UTILITY DEMOUNTABLE RIM WRENCH



A Whole Tool Kit in One

Specially designed for removing all nuts used in connection with all kinds of demountable rims, but can be utilized for many other purposes.

It is really a socket wrench set in itself. Adjusts itself automatically.

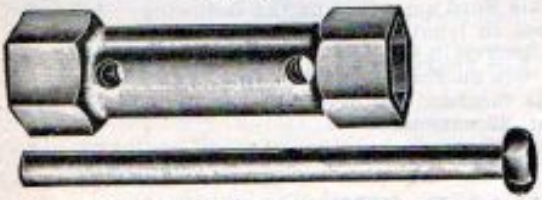
This wrench can be used with both hands. It operates as does a bit brace and can exert great pressure.

Can be folded when not in use and carried in a tool box.

Each $1.75

OLIVER SPARK PLUG WRENCHES

Double



2 Sizes, White Nickel Finish

No. 4—Fitting ⅞ in. A. L. A. M. x $1\frac{3}{16}$ in. special ..... doz. $6.50

No. 5—Fitting ½ in. Standard x ⅞ in. A. L. A. M. spark plug ..... doz. 6.50

Single

3 Sizes, White Nickel Finish

No.		Dozen
1	Fitting ½ in. Standard Spark Plug	[illegible]
2	Fitting ⅞ in. A. L. A. M. Spark Plug	[illegible]
3	Fitting $1\frac{3}{16}$ in. Special Spark Plug	[illegible]

Per [illegible]